



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,624	08/28/2001	Robin U. Roberts	42092	4515

8968 7590 06/21/2005

GARDNER CARTON & DOUGLAS LLP
ATTN: PATENT DOCKET DEPT.
191 N. WACKER DRIVE, SUITE 3700
CHICAGO, IL 60606

EXAMINER

GENACK, MATTHEW W

ART UNIT PAPER NUMBER

2645

DATE MAILED: 06/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/939,624	Applicant(s) ROBERTS, ROBIN U.	
	Examiner Matthew W. Genack	Art Unit 2645	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 January 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>31 May 2002</u> . | 6) <input checked="" type="checkbox"/> Other: <u>Supplemental IDS</u> . |

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: "1000" of Fig. 3. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 16 recites the phrase "A method as claimed in claim 16". There is insufficient antecedent basis for this limitation in the claim. Examiner interprets this Claim (in addition to Claims 17-20) such that this phrase (and its counterparts in Claims 17-20) is replaced with "A method as claimed in claim 15".

Claim Rejections - 35 USC § 102

Art Unit: 2645

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Larsen *et. al.*, U.S. Patent No. 6,810,428.

Regarding Claims 1, 6, 8, 11, 15, 19, 21, 24, 27, 31, 33, and 36, Larsen *et. al.* discloses a wireless communications network comprised of multiple mobile terminals, along with a method of operating such a network (Abstract, Column 1 Lines 30-35, Fig. 1). The user terminals comprise transceivers (which, by inherency, are controlled, either directly or indirectly, by computer readable instructions) that are able to transmit wireless communications data to destination user terminals or receive wireless communications data from destination user terminals by way of intermediate user terminals in the same network (Column 4 Lines 34-37 and 51-63, Column 5 Lines 4-9, Fig. 1). The user terminals comprise controllers that are able to allow or prevent the transmission of said wireless communications data based on routing data related to the powers required for transmission, powers available for transmission, and the potential levels of interference between neighboring user terminals (Abstract, Column 1 Lines 40-45 and 64-66, Column 2 Lines 15-38, Column 4 Line 65 to Column 5 Line 3, Column 16 Lines 53-61, Column 25 Lines 26-35).

Regarding Claims 2-3, 16-17, and 28-29, Larsen *et. al.* discloses the presence of RAM inside of the user terminals, said RAM storing information related to the routing of data, based on power level considerations, through the network, said information being received from the infrastructure of the network as well as other user terminals of the network (Column 25 Lines 51-65, Column 26 Lines 46-58, Column 27 Lines 15-20).

Regarding Claims 4, 5, 12, 18, 25, 30, and 37, Larsen *et. al.* discloses that routing data (Gradient Messages in this case) may indicate the scenario whereby several user terminals are either turned off or moving at the same time (Column 16 Lines 9-26).

Regarding Claims 7, 14, 20, 26, 32, and 38, Larsen *et. al.* discloses that the wireless communications network processes packet data (Column 5 Lines 48-54, Column 6 Lines 61-67).

Regarding Claims 9-10, 22-23, and 34-35, Larsen *et. al.* discloses that commands may be issued, by the user, to the user terminal in order to direct said user terminal to transmit data (Column 19 Lines 6-8). Similarly, since the transceiver of a given user terminal may forward data received from one user terminal to another user terminal, it is the case that this retransmission is caused by commands received from elsewhere in the network (*e.g.*, the originating user terminal).

Regarding Claim 13, Larsen *et. al.* discloses the use of a table for use in setting power output levels for transmissions pertaining to the routing of wireless communications (Column 26 Lines 3-17).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew W. Genack whose telephone number is 571-272-7541. The examiner can normally be reached on FLEX.

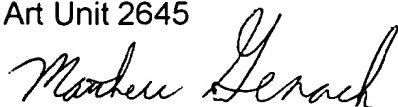
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Matthew Genack

Examiner

Art Unit 2645



26 May 2005



ROLAND G. FOSTER
PRIMARY PATENT EXAMINER